Prep Your Brain to LEARN More about Environmental Health in 2013!

Guess the topics & speakers featured in the

2013 SRP Seminar & Networking Events at ATSDR!

During 2013 two speakers from different Superfund Research Program university programs (www.niehs.nih.gov/research/supported/srp/) are scheduled to visit NCEH/ATSDR.

February 27 Speaker

[10-11:30 am seminar Chamblee 106 1A/B ATSDR]

1. Identify contaminant class *A* from the description below. ChemID may be helpful:
   www.chem2.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
   - I have inspired protesters too young to remember streaking to get naked in public.
   - I have no assigned molecular weight.
   - I am considered an "emerging contaminant;" however, sometimes I may be used to detect or remediate environmental contamination.
   - Members of this class of chemicals are used in a product to quickly clean up mercury spills and capture vapor phase mercury.
   - Water and detergent are scarce at the North Pole, so Santa would like to keep his pants clean enough to avoid washing them this year. So he had Mrs. Claus make him a pair of pants from fabric enhanced with some members of this class of chemicals.
   - The Drudge Report has warned Santa that the Grinch plans to build a fire in his fireplace on Christmas Eve. To avoid burning his bum, Santa has fortified his pants with well enclosed batts of another class of contaminants with some structural and toxicological analogies to contaminant class *A*. The process creating these analogous contaminants has something in common with the making of candy canes.
   - For some contaminant class members and members of the analogous class of contaminants, the toxicological
   - Mechanism of Action in lungs *may* involve
     - Two merry macrophages trying to digest
     - And emitting ROS!
     - [And a partridge in a pear tree …..on the front page of the reprint]

   a. What class of chemical contaminants am I? _____.
   b. Is there an MRL or RfD for any members of this class of compounds? Yes/No
      i. If so, identify at least one class member with an MRL or RfD or both: _____ .
      ii. If not, explain why not: _____.
   c. Is there anything unique about how I am listed on cosmetic, food, or drug labels? If so, what?
      _____.
   d. Members of this class of contaminants may be natural, incidental, or engineered. True/False
   e. Is it possible to determine a minimum number of completed exposure pathways for this class of contaminants or any member of it from the Completed Exposure Pathway Site Count Report (www.atsdr.cdc.gov/cep/index.html)? Yes/No
      i. If so, state this minimum number and explain which specific contaminants you summed to get it:
      _____.
      ii. If not, explain why. _____.

2. The February speaker works or has worked on SRP funded projects about contaminant class *A* and the analogous contaminant class mentioned above. S/he has a degree in an engineering field.

a. By using the Superfund Research Program search engine (tools.niehs.nih.gov/srp/search/index.cfm) you can identify the speaker as _____.

b. If you cannot identify the speaker, alternative credit is available for any helpful advice you can provide about how SRP could make their search engine more useful to you for finding potential consultants or collaborators: _____.

September 18 Speaker

[10-11:30 am seminar Chamblee 106 1A/B ATSDR]

3. This element and its various compounds have been the topic of at least one previous Superfund Research Program Seminar and Networking Event. In fact, SRP funds quite a bit of research about this element.

a. Which of the following statements about this element are **not** true?

- Some research indicates previous exposure to me can make people more susceptible to catching certain infectious diseases.
- I am or was often found in chicken poop produced with certain farming practices in certain states.
- My background levels in certain soils pose a quandary for setting NPL clean-up levels.
- ***Connecting Research and Practice: A Dialogue between ATSDR and the NIEHS Superfund Research Program*** featured multiple presentations about me. Abstracts are still available at this link: www.niehs.nih.gov/about/visiting/events/pastmtg/2012/atsdr_srp/index.cfm.
- I may cause pulmonary, dermatological, and cardiovascular effects. I am a halogen.
- I am sometimes a contaminant in well water.
- A compound containing me was once known as the "inheritance powder."
- A Case Study in Environmental Medicine (www.atsdr.cdc.gov/csem/csem.html) features me.
- Frequently found in barley but not in rice or corn.
- I cost POTWs considerable money and effort.

b. What element am I? _____

c. Do any Interaction Profiles (www.atsdr.cdc.gov/interactionprofiles/index.asp) include me?

i. Yes/no

ii. If so, which ones? : _____.

d. Name a Public Health Assessment (www.atsdr.cdc.gov/HAC/PHA/index.asp) in which I was screened or evaluated as a contaminant of concern _____ .

e. Several completed exposure pathways (to me) were recently discovered for people living in the community of Hogzilla's Eyebrow. The exposures of community members will be evaluated using the same methods used in the National Exposure Report: www.cdc.gov/exposurereport/. The informed consent must explain the risk of collecting what biological materials from study participants in order to do the analysis? _____.